

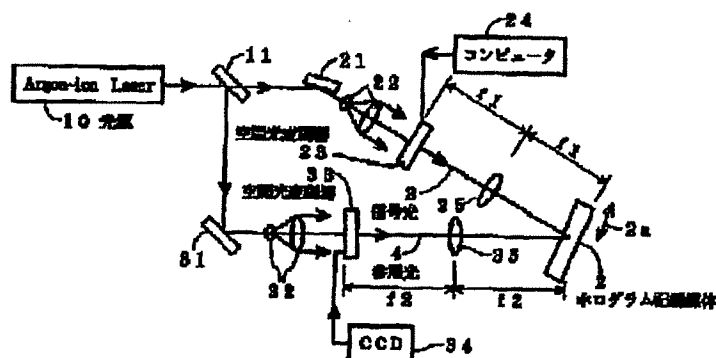


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Search scope: US Granted US Applications EP-A EP-B WO JP DE-A DE-C GB-A ; Full patent spec.

Years: 1990-2002

Text: fingerprint US or Int'l Class: g11b007\*



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JP11102425 (△) A

INFORMATION MEDIA, OPTICAL RECORD METHOD, OPTICAL RECORDER,  
OPTICAL READ METHOD AND OPTICAL READER

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Application No. 09260590 JP09260590 JP, Filed 19970925, A1 Published 19990413

**Abstract:** PROBLEM TO BE SOLVED: To surely prevent forgeries, alterations, copies, data alterations and unauthorized uses of such information media as various cards and also to easily rewrite information.

**SOLUTION:** Data information is shown as a two- dimensional image on a spatial optical modulator 23 and the intensity of signal light 3 is modulated in two dimensions. An image-pickup device 34 picks up the image of a fingerprnt (Λ) of an authenticated person as a two- dimensional image, the two-dimensional image is shown on a spatial optical modulator 33 and the intensity of a reference beam 4 is modulated into two dimensions. At the same time, a hologram recording medium 2 is irradiated with the light 3, which passed through the modulator 23 and the beam 4 which passed through the modulator 33, and a hologram that results in interference with the light 3 which is modulated by data information and the beam 4 is modulated by a fingerprnt (Λ) is recorded on the medium 2. The authenticated person can have an image-pickup device 34 read his own fingerprnt (Λ) and have it read recorded data information. Even if a third person has the device 34 read his own fingerprnt (Λ) he cannot read the recorded data information.

**Int'l Class:** G06K01910; B42D01510 C08K00515 C08K00523 C08L02904 C08L03312  
C08L06702 G02F00113 G03F007004 G03H00102 G03H00116 G03H00118 G03H00122  
G06K01700 G06K01906 G07F00708 G11B00724

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